



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO
GOVERNOR
MIKE D. McDANIEL, Ph.D.
SECRETARY

Certified Mail No.

Activity No.: PER19960001
Agency Interest No. 1272

Mr. Greg Knight
Vice President
Big River Industries Inc
PO Box 66377
Baton Rouge, LA 70896-6377

RE: Part 70 Operating Permit, Gravelite Division
Big River Industries Inc, Erwinville, Pointe Coupee Parish, Louisiana

Dear Mr. Knight:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2006.

Permit No.: 2260-00002-V0

Sincerely,

Chuck Carr Brown Ph.D.
Assistant Secretary

CCB:AHG
c: EPA Region VI

DRAFT FOR
PUBLIC
NOTICE

ENVIRONMENTAL SERVICES
PO BOX 4313, BATON ROUGE, LA 70821-4313
P:225-219-3181 F:225-219-3309
WWW.DEQ.LOUISIANA.GOV

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
BIG RIVER INDUSTRIES, INC
GRAVELITE DIVISION

**PROPOSED INITIAL PART 70 AIR OPERATING PERMIT
AND INITIAL PREVENTION OF SIGNIFICANT DETERIORATION (PSD) PERMIT**

The LDEQ, Office of Environmental Services, is accepting written comments on a proposed initial Part 70 air operating permit and initial prevention of significant deterioration (PSD) permit for Big River Industries, Inc, P. O. Box 66377, Baton Rouge, LA 70896-6377 for the Gravelite Division. The facility is located at 12652 Highway 190 West in Erwinville, Pointe Coupee (West Baton Rouge) Parish.

The Gravelite Division produces lightweight or expanded aggregate material for use in products such as concrete blocks, lightweight concrete, and asphalt overlay. The facility currently operates under Permit No. 2260-00002-01 issued September 02, 1990, and a small source Permit No. 2605 issued May 12, 1999, and an Authorization to Construct issued October 28, 1999.

Big River Industries, Inc requested an initial Part 70 air operating permit for the Gravelite Division as well as major changes to its existing state operating permit that warranted a PSD permit. These changes will be effected in two phases as described below:

Phase I

1. Obtain a Part 70 Operating Permit for the facility.
2. Obtain a Prevention of Significant Deterioration (PSD) permit.
3. Increase the production rate from 18 to 22 tons of clay per hour per kiln.
4. Increase the annual operating hours for each kiln 7,896 to 8,760 hours. This increase will also be applied throughout the finishing plant sources.
5. Burn only coal with sulfur content not to exceed 1.5% by weight.
6. Remove Crusher No. 2 (EPN 014).
7. Add existing emission sources not previously permitted (Unpaved Roads, diesel and gasoline storage tanks, stockpiles and clinker crushing activities).
8. Add existing General Condition XVII and insignificant activity emission sources.
9. Incorporate all permit actions issued and/or authorized after September 2, 1990.

Phase II

10. Retrofit the existing wet scrubbers (EPN 001, EPN 002, EPN 003, and EPN 004) to achieve a minimum SO₂ removal efficiency of 93%, and
11. Allow the kilns to burn a petroleum coke coal fuel mixture containing up to 50% petroleum coke. The percent sulfur contents of the coal and petroleum coke shall not exceed 1.5 and 5.0 respectively.

Estimated emissions increases from the Project, in tons per year, are as follows:

Pollutant	Project-Related Increase (tpy)	Contemporaneous Decreases/Increases	PSD De Minimis	PSD Review Required?
PM ₁₀	33.40**	*	15	Yes
SO ₂	38.60**	*	40	No

NO _x	756.10**	*	40	Yes
CO	43.30**	*	100	No
VOC	11.50	*	40	No

* No contemporaneous decrease/increases.

** Past actual emissions exceed permitted emission rates as a result of a change in estimation methodology. For PSD purposes, pollutant emissions increases are obtained by subtracting the proposed emission rate (future actual) from the permitted emission limit (the lower of the permitted and actual).

Estimated emissions for the facility, in tons per year, are as follows:

Pollutant	Before	After	Change
PM ₁₀	51.50	52.70	+ 1.20
SO ₂	220.40	258.08	+ 37.68
NO _x	246.40	1002.56	+ 756.16
CO	236.80	147.68	- 89.12
VOC *	0.20	11.97	+ 11.77

*Toxic Air Pollutants (TAPs) components total 0.01 tons per year.

A Prevention of Significant Deterioration (PSD) review is required for the modification of an existing major source that results in a significant increase of regulated pollutant(s). PM₁₀ and NO_x emissions are above the significance level and must undergo PSD review. Netting analyses indicated that the facility would not net out for PM₁₀ and NO_x emissions. Venturi wet scrubbers and good combustion and maintenance practices were determined as the best available control technologies for controlling PM₁₀ and NO_x emissions from the rotary kilns, respectively. Also water spray and partial enclosed conveyors were selected as the best available control technologies for controlling PM₁₀ fugitive emissions.

Written comments, written requests for a public hearing, or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Monday, June 12, 2006.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, proposed initial part 70 air operating permit, PSD, Environmental Assessment Statement (EAS) also known as "Response to IT questions", and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). Additional copies may be reviewed at The Pointe Coupee Parish Library, Headquarters, 201 Claiborne Street, New Roads, LA 70760 and the West Baton Rouge Parish Library, 830 North Alexander, Port Allen, LA 70767.

Inquiries or requests for additional information regarding this permit action should be directed to Dr. Hassan

Ghosn, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3113.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at maillistrequest@ldeq.org or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.state.la.us/news/PubNotice/ and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.state.la.us/ldbc/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 1272,

**Initial Part 70: Permit Number 2260-00002-V0, and Activity Number PER19960001
PSD: Permit Number PSD-LA-713 and Activity Number PER20050002.**

Publication date: May 4, 2006 in The Pointe Coupee Banner; May 5, 2006 in The Advocate, and May 11, 2006 in the West Side Journal

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

GRAVELITE DIVISION
AGENCY INTEREST NO.: 1272
BIG RIVER INDUSTRIES INC
ERWINVILLE, POINTE COUPEE PARISH, LOUISIANA

I. BACKGROUND

Big River Industries, Inc (Big River), Gravelite Division is an existing lightweight, low density aggregate facility. The facility is located at 12652 Highway 190 West in Erwinville and operates four rotary kilns. The kilns are currently fired with coal (maximum of 1.5% by weight sulfur) as the primary fuel and natural gas as support fuel (typically used for kiln startup). The facility, constructed prior to June 19, 1969, was initially grandfathered. A request to modify the kilns to burn coal with no more than 3% sulfur content until 1980 and no more than 0.5% thereafter was approved by the Louisiana Air Pollution Control Commission and Permit No. 712 was issued March 30, 1977. An exemption to allow burning coal with 3% sulfur content for 90 days was granted on March 23, 1980. Oldcastle APG, Inc. acquired Big River Industries in 1987 and Big River has been ever since a fully owned subsidiary of Oldcastle. A modification to allow burning coal with 1.5% sulfur content submitted July 24, 1980 was approved and Permit No. 2260-00002-01 was granted on September 02, 1990. A 24 hour red mud test burn in Kiln No. 1 was approved January 6, 1995 and a request to temporarily operate a portable screen and associated conveyors was approved August 17, 1998. A request to install a double deck cleaning screen to separate and segregate the aggregates was approved under small source permit No. 2605 granted on May 12, 1999. An authorization to install a new dust chamber and a new scrubber upstream on Kiln No. 1, and increasing the stack height of the rotary kiln from 50 ft to 75 ft was issued October 28, 1999. Compliance Order No.: AE-C-99-0208, incorporating emission factors from test results, was issued January 27, 2000 and subsequently amended May 24, 2000 (AE-C-99-0208A), March 13, 2001 (AE-C-99-0208B), and October 9, 2001 (AE-C-99-0208C). An exemption to test at higher than permitted feed rates for the rotary kilns was granted on June 9, 2004. Replacement of two existing old conveyors with a single new conveyor to move aggregate from the night stockpile into the finishing plant was approved on February 18, 2005. An exemption to test when burning a combination of coal and petroleum coke was granted May 15, 2005.

This is the initial Part 70 operating permit for the facility.

II. ORIGIN

A permit application and Emission Inventory Questionnaire were submitted by Big River Industries Inc. on October 14, 1996 requesting a Part 70 operating permit. Revisions dated January 15, 1998 and October 20, 1998 were also received. A third revision dated July 12, 2002 and a fourth revision along with a Prevention of Significant Deterioration (PSD) application dated July 12, 2005 were received. Additional information dated February 01, 2006, February 16, and March 20, 2006 was received. A fifth revision dated April 03, 2006, a final revision dated April 19, 2006, as well as additional information dated April 21, April 24, April 26, and May 01, 2006 was also received.

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III. DESCRIPTION

The Gravelite Division produces lightweight or expanded aggregate material for use in products such as concrete blocks, lightweight concrete, and asphalt overlay. The operation involves feeding clay (mined on site) through one of four rotary kilns to produce an expanded lightweight gravel-size aggregate. The kilns are currently fired with coal (maximum of 1.5 % sulfur content) as the primary fuel and natural gas as support fuel typically used for kiln startup.

The clay is fed into the back of the kiln where it is dried and expanded as it travels through the kiln to the front end where the temperature is maintained at 2100 °F. The exhaust gases, composed of heated air, combustion gases, water vapor, and PM₁₀ associated with clay, exit each kiln and enter a dust chamber and scrubbers for emissions control. Each rotary kiln is fitted with a wet scrubber. The scrubber design includes a venturi section for controlling particulate matter (PM₁₀) emissions with a removal efficiency of 99% followed by a lime-injected wet baffle section for controlling sulfur dioxide (SO₂) emissions with a current SO₂ removal efficiency of 80%. The emissions from the kilns are released to the atmosphere through Emission Points EPN 001, EPN 002, EPN 003, and EPN 004.

The hot aggregate exiting each kiln enters into a cooler. A blower forces ambient air through the cooler to cool (dry) the aggregate. The ambient air is heated as it passes through the hot aggregate in the cooler. A portion of the air exiting the cooler is fed into the kiln hood as secondary combustion air. The balance of the heated air is discharged via cooler multi-cyclones through the cooler vent stack.

A hood installed over the outlet of the cooler collects the gases discharged from the cooler. The vent fan pulls the gases through the cooler hood, through a multi-cyclone, separator, and the fan then exhausts through the cooler stack through Emission Points EPN 005a, EPN 006a, EPN 007a, and EPN 008a.

The aggregate is transported through the cooler and is discharged onto a grating to collect large clinkers. The smaller aggregate (smaller than 4 to 6 inches) falls through the grating onto a conveyor belt. The clinkers collected by the grating are discharged into the clinker pile located behind the cooler. Small fines that fall into a chamber beneath the cooler (where the cooler air enters before passing up through the hot aggregate) are collected by a drag chain and discharged onto the conveyor belt with the aggregate.

Aggregate exiting the cooler is typically transferred directly to the finishing plant for processing prior to stockpiling. During outages of the finishing plant, aggregate from the cooler is routed to the night stockpile for temporary storage. This aggregate is then fed from the stockpile to the screening and crushing operations as needed.

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The aggregate is transported via conveyor to the main hopper. The main hopper receives aggregate produced in the plant kilns, aggregate from the night stockpile, and aggregate from clinkers that have been reduced in size by a bulldozer. The main hopper feeds a conveyor that transports the aggregate to the Scalping Screen, Emission Point EPN 009, for sizing and separating finer material from the oversized aggregate material that requires primary crushing. Oversized material is diverted directly into the Primary Crusher, Emission Point EPN 010, where it is crushed and recombined with aggregate being transported to the scalping screen for further sizing. Following the scalping screen, the aggregate is fed to the North Screen, Emission Point EPN 011, or the South Screen, Emission Point EPN 012. The aggregate fed through the screens can be further reduced in size by the No. 1 Crusher, Emission Point EPN 013. The aggregate exiting the No. 1 Crusher and the North and the South Screens is transported via conveyor to one of five product stockpiles prior to shipment from the plant.

The Double Deck Clean-Up Screen, Emission Point EPN 018, allows for aggregate from the product stockpiles to have a higher gradation as desired per customer specification to meet current market demands. Aggregate from the Double Deck Clean-Up Screen is routed to a stockpile or directly for loading. Stockpiled material ranges in size from 5/8 inch to 100 mesh.

Fugitive PM₁₀ emissions occur during loading of the aggregate onto the piles and through wind erosion. Big River uses water suppression systems on all product stockpiles for fugitive dust control. The fugitive PM₁₀ emissions from the general conveyor systems and aggregate stockpiles are combined under EPN 017a, while those generated from the night stockpile conveyor system recently installed are reported under EPN 017b.

Big River utilizes conveyor systems to transfer the aggregate material throughout the plant. Fugitive dust (particulate matter) emissions potentially occur at each conveyor transfer point. Water suppression systems are used throughout as needed for fugitive dust control.

Sized aggregate material is shipped from Big River via railcars and trucks. The plant operates two load-out areas, the East Truck and Rail Load-out, Emission Point EPN 015, and the West Truck and Rail load-out, Emission Point EPN 016. The aggregate is transferred from the stockpiles to load-out conveyor via an underground tunnel.

A maximum of 770,880 tons of clay will be dried and calcined and 347,000 tons of light aggregates of various sizes are produced at the facility annually.

Big River proposes a number of changes at the facility. Some of these changes will take place immediately after the permit is granted (Phase I) and others involve physical modifications (retrofit) and as such will start at a later date and will be completed over a period of time (Phase II). During Phase I the facility will be firing the kiln with coal with sulfur content not exceeding 1.5% by weight and with the scrubber's SO₂ removal efficiency of at least 80%, and the

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associated emissions will be capped to allow operational flexibility while maintaining compliance with the sulfur emissions limit. Phase II will be the normal operating mode of the facility after the modifications are completed. This entails only a change in the fuel from coal only to coal coke petroleum mixtures of up to 50% petroleum coke and the scrubbers SO₂ removal efficiency increase to at least 93.0%.

The proposed changes are identified, by phase, below:

Phase I

1. Obtain an initial Part 70 Operating permit for the facility.
2. Obtain a Prevention of Significant Deterioration (PSD) permit.
3. Increase the production rate from 18 to 22 tons of clay per hour per kiln.
4. Increase the annual operating hours for each kiln 7,896 to 8,760 hours. This increase will also be applied throughout the finishing plant sources.
5. Continue to burn only coal with sulfur content not to exceed 1.5% by weight.
6. Remove Crusher No. 2 (EPN 014).
7. Add existing emission sources not previously permitted (Unpaved Roads, diesel and gasoline storage tanks, stockpiles and clinker crushing activities).
8. Add existing General Condition XVII and insignificant activity emission sources.
9. Incorporate all permit actions issued and/or authorized after September 2, 1990.

Phase II

10. Retrofit the existing wet scrubbers (EPN 001, EPN 002, EPN 003, and EPN 004) to achieve a minimum SO₂ removal efficiency of 93.0%, and
11. Allow the clay kilns to burn coal/petroleum coke mixtures containing up to 50% petroleum coke by weight. The percent sulfur contents, by weight, of the coal and petroleum coke shall not exceed 1.5 and 5.0, respectively.

The total estimated potential PM₁₀, NO_x, CO, and VOC emissions are naturally the same for both phases. The four kilns SO₂ total potential to emit during Phase I is 372.30 tons/yr which is higher than that of these kilns during Phase II which is 258.08 tons/yr. The latter is 37.68 tons above the permitted limit under the state Permit No. 2260-00002-01 and is less than the PSD significance level of 40 tons. This difference is attributed to existing scrubbers lower SO₂ removal efficiency of 80.0% (during Phase I) while it will increase to 93.0%, as a result of retrofitting the scrubbers after completing Phase II. However, the four kilns SO₂ total potential to emit during Phase I will be held to the same limit permitted for Phase II by a federally enforceable condition limiting the SO₂ emissions (CAP) to maintain the SO₂ emission increase under the PSD threshold.

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Implementation of the Feed Increase and Flexibility Project, mainly the proposed increase in the kilns clay feed rates, the increase in the operating hours, and the ability to burn coal/petroleum coke mixtures of up to 50% by weight petroleum coke as described above in items 3, 4 and 11, will increase PM₁₀ and NO_X emissions at the plant above PSD levels.

Estimated emissions increases from the Project, in tons per year, are as follows:

Pollutant	Project-Related Increase (tpy)	Contemporaneous Decreases/Increases	PSD De Minimis	PSD Review Required?
PM ₁₀	33.40**	*	15	Yes
SO ₂	38.08**	*	40	No
NO _X	756.10**	*	40	Yes
CO	43.30**	*	100	No
VOC	11.50	*	40	No

* No contemporaneous decrease/increases.

** Past actual emissions exceed permitted emission rates as a result of a change in estimation methodology. For PSD purposes, pollutant emissions increases are obtained by subtracting the currently permitted emission limit (the lower of the permitted and actual) from the proposed emission rate.

A Prevention of Significant Deterioration (PSD) review is required for the modification of an existing major source that results in a significant increase of regulated pollutants. PM₁₀ and NO_X emissions are above the significance level and must undergo PSD review. Netting analyses indicated that the facility would not net out for PM₁₀ and NO_X emissions. The selection of the best available control technology for PM₁₀ and NO_X emissions used the "top-down" approach. Upon review of the technically feasible control options for the various effected emission points using the "top-down" BACT analyses, it was concluded that alternate control technologies have high cost effectiveness values, and/or report lower efficiencies in comparison to the plant's current controls. Consequently, the plant's existing means of PM₁₀ emissions controls ranging from cyclones (with 25.0% removal efficiency) on the coolers, to partially enclosed and/or water spray (with the same 90.0% removal efficiency) for transfer conveyors, to water spray (with 90.0% removal efficiency) for aggregate crushing operations, and product stockpiles, to watering and reduced speed limit (with 95.5% combined removal efficiency) for unpaved roads, to venturi scrubbers (with 99.6% removal efficiency) on the rotary kilns, and to good combustion and maintenance practices for controlling NO_X emissions, were determined to be the corresponding BACTs.

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Emissions from the production of lightweight aggregate consist primarily of PM₁₀, SO₂, NO_x, CO, and VOC. These emissions are associated with fuel combustion, cooling, fugitives from aggregate screening, crushing, conveyor transfer operations, stockpiles and loading into trucks and railcars. All other equipment is electrically driven.

Emissions from the facility are estimated using a mass balance approach, published emission factors, and/or source specific emission factors based on actual testing. Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	51.50	52.70	+ 1.20
SO ₂	220.40	258.08	+ 37.68
NO _x	246.40	1002.56	+ 756.16
CO	236.80	147.68	- 89.12
VOC *	0.20	11.97	+ 11.77

*Toxic Air Pollutants (TAPs) components total 0.01 tons per year.

Other VOC (TPY): 11.96

IV. TYPE OF REVIEW

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and Prevention of Significant Deterioration (PSD). National Emission Standards for Hazardous Air Pollutants (NESHAP) does not apply.

This facility is a minor source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. CREDIBLE EVIDENCE

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance

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or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. PUBLIC NOTICE

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to issuance of the final permit decision.

VII. EFFECTS ON AMBIENT AIR

Dispersion Model Used: ISCST3; Industrial Source Complex Short Term Model V 02035

Pollutant	Time Period	Calculated Maximum Ground Level Concentration ($\mu\text{g}/\text{m}^3$)	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS}) ($\mu\text{g}/\text{m}^3$)
NO ₂	Annual	58.0	(100)
PM ₁₀	24-hr	143.4	(150)
	Annual	48.1	(50)

VIII. GENERAL CONDITION XVII ACTIVITIES

Work Activity	Schedule	Emission Rates – tons per year				
		PM ₁₀	SO ₂	NO _x	CO	VOC
Dust Chamber Clean-Out	As needed	<0.01	-	-	-	-
Natural Gas Burner (Kiln Start Up)	As needed	0.04	<0.01	0.84	0.12	0.03

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IX. INSIGNIFICANT ACTIVITIES

ID No.:	Description	Citation
NA	Two (2) Natural Gas Burners	LAC 33:III.501.B.5.A.1
NA	Used Oil Tank (1,000 gals)	LAC 33:III.501.B.5.A.3
NA	Engine Oil Tank (330 gals)	LAC 33:III.501.B.5.A.3
NA	Gear Oil Tank (330 gals)	LAC 33:III.501.B.5.A.3
NA	Small Used Oil Tank (280 gals)	LAC 33:III.501.B.5.A.3
NA	Transmission/Hydraulic Fluid Tank (330 gals)	LAC 33:III.501.B.5.A.3

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ERWINVILLE, POINTE COUPEE PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III. Chapter															
		5▲	9	11	13	15	2103	2104*	2107	2115	2123	22	29*	51*	53	56	59
	Plant Wide	1	1	1	1							3	2	1	3		
EQT 14	001—No. 1 Rotary Kiln	1	1	1	1	1											
EQT 15	002—No. 2 Rotary Kiln	1	1	1	1	1											2
EQT 3	003—No. 3 Rotary Kiln	1	1	1	1	1											2
EQT 4	004—No. 4 Rotary Kiln	1	1	1	1	1											2
EQT 5	005a—No. 1 Cooler	1	1	1	1												
EQT 6	006a—No. 2 Cooler	1	1	1	1												
EQT 7	007a—No. 3 Cooler	1	1	1	1												
EQT 8	008a—No. 4 Cooler	1	1	1	1												
EQT 9	015—East Truck and Rail Load-out (Fugitives)	1	1	1	1												
EQT 10	016—West Truck and Rail Load-out (Fugitives)	1	1	1	1												
EQT 11	019—Gasoline Storage Tank											1					
EQT 12	020—Gravelite Diesel Storage Tank											3					
EQT 13	021—Contractor Diesel Storage Tank											3					

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III:Chapter										8	8	8	8
		5▲	9	11	13	15	2103	2104*	2107	2115	2123				
FUG 1	009—Scalping Screen (Fugitives)		1		1										
FUG 2	010—Primary Crusher (Fugitives)		1		1										
FUG 3	011—North Screen (Fugitives)		1		1										
FUG 4	012—South Screen (Fugitives)		1		1										
FUG 5	013—No. 1 Crusher (Fugitives)		1		1										
FUG 7	017a—General Conveyor Systems & Stockpiles (Fugitives)		1		1										
FUG 8	017b—Night Stock Pile Conveyor Systems(Fugitives)		1		1										
FUG 9	018—Double Deck Clean-up Screen (Fugitives)		1		1										
FUG10	005b—No. 1 Cooler Fugitives		1		1										
FUG11	006b—No. 2 Cooler Fugitives		1		1										
FUG12	007b—No. 3 Cooler Fugitives		1		1										
FUG13	008b—No. 4 Cooler Fugitives		1		1										
FUG14	022—Unpaved Road Fugitives		1		1										

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

GRAVELITE DIVISION
AGENCY INTEREST NO.: 1272
BIG RIVER INDUSTRIES INC
ERWINVILLE, POINTE COUPEE PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter															
		5 ▲	9	11	13	15	2103	2104*	2107	2115	2123	22	29*	51*	53	56	59
FUG15	023—Clinker Crushing and Handling			1	1												

* The regulations indicated above are State Only regulations.

- ▲ All LAC 33:III.Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the “Specific Requirements” Report specifically states that the regulation is state only.

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

GRAVELITE DIVISION
 AGENCY INTEREST NO.: 1272
 BIG RIVER INDUSTRIES INC
 ERWINVILLE, POINTE COUPEE PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR					
		A	Ka	Kb	Db	Dc	OOO	UUU	A	J	V	A	HH	SS	VV	HHH	52	64	68						
	Plant Wide	1							3	3									1						
EQT 14	001—No. 1 Rotary Kiln (Wet Clay)											3								1					
EQT 15	002—No. 2 Rotary Kiln (Wet Clay)											3								1					
EQT 3	003—No. 3 Rotary Kiln (Wet Clay)											3								1					
EQT 4	004—No. 4 Rotary Kiln (Wet Clay)											3								1					
EQT 5	005a—No. 1 Cooler (Wet Clay)																			1					
EQT 6	006a—No. 2 Cooler (Wet Clay)																			1					
EQT 7	007a—No. 3 Cooler (Wet Clay)																			1					
EQT 8	008a—No. 4 Cooler (Wet Clay)																			1					
EQT 9	015—East Truck and Rail Load-out (Aggregate Fugitives)																								
EQT 10	016—West Truck and Rail Load-out (Aggregate Fugitives)																								
EQT 11	019—Gasoline Storage Tank																								
EQT 12	020—Gravelite Diesel Storage Tank																								

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

GRAVELITE DIVISION
 AGENCY INTEREST NO.: 1272
 BIG RIVER INDUSTRIES INC
 ERWINVILLE, POINTE COUPEE PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61			40 CFR 63 NESHAP			40 CFR				
		A	Ka	Kb	Db	Dc	OOO	UUU	A	J	V	A	HH	SS	VV	HHH	52	64
EQT 13	021—Contractor Diesel Storage Tank							3										
FUG 1	009—Scalping Screen (Aggregate Fugitives)										3							
FUG 2	010—Primary Crusher (Aggregate Fugitives)										3							
FUG 3	011—North Screen (Aggregate Fugitives)										3							
FUG 4	012—South Screen (Aggregate Fugitives)										3							
FUG 5	013—No. 1 Crusher (Aggregate Fugitives)										3							
FUG 7	017a—General Conveyor Systems & Stockpiles (Aggregate Fugitives)										3							
FUG 8	017b—Night Stock Pile Conveyor Systems (Aggregate Fugitives)										1							
FUG 9	018—Double Deck Clean-up Screen (Aggregate Fugitives)										1							
FUG10	005b—No. 1 Cooler Fugitives														3			
FUG11	006b—No. 2 Cooler Fugitives														3			
FUG12	007b—No. 3 Cooler Fugitives														3			

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GRAVELITE DIVISION
AGENCY INTEREST NO.: 1272
BIG RIVER INDUSTRIES INC
ERWINVILLE, POINTE COUPEE PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61			40 CFR 63 NESHAP			40 CFR				
		A	Ka	Kb	Db	Dc	000	UUU	A	J	V	A	HH	SS	VV	HHH	52	64
FUG13	008b—No. 4 Cooler Fugitives							3										
FUG14	022—Unpaved Road Fugitives																	
FUG15	023—Clinker Crushing and Handling																	

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

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LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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AGENCY INTEREST NO.: 1272
BIG RIVER INDUSTRIES INC
ERWINVILLE, POINTE COUPEE PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
Plant wide	Comprehensive Toxic Air Pollutant Emission Control Program – LAC 33:III.5101 (State Requirement)	DOES NOT APPLY. The facility is a minor source for toxic air pollutants.
	LAC 33:III.2115 – Control of Emissions of Organic Compounds – Waste Gas Disposal.	DOES NOT APPLY. Source is not involved with control of organic compounds associated with waste gas disposal.
	LAC 33:III.1503 –Emission Standards for Sulfur Dioxide EQT 14, No. 1 Rotary Kiln, EQT 15, No. 2 Rotary Kiln,, EQT 3, No. 3 Rotary Kiln, EQT 4, No. 4 Rotary Kilns	EXEMPT – Units emits less than 250 tons per year of sulfur compounds measured as sulfur dioxide (SO ₂). Record and retain at the site for at least two years the data required to demonstrate exemption from SO ₂ standards of Chapter 15 per LAC 33:III.13. Compliance data shall be reported annually in accordance with LAC 33:III.918.
	LAC 33:III Chapter 22– Control of Emissions of Nitrogen Oxides (NO _x).	EXEMPT – Combustion equipment used for drying, baking, cooking and calcining. [LAC 33:III.2201.C.7]
	NSPS Subpart UUU – Standards of Performance for Calciners and Dryers in Mineral Industries.[40 CFR 60.730]	DOES NOT APPLY. Constructed before, and has not been modified after April 23, 1986. [40 CFR 60.730 (c)]

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AGENCY INTEREST NO.: 1272
BIG RIVER INDUSTRIES INC
ERWINVILLE, POINTE COUPEE PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 9, East Truck & Rail Load-out EQT 10, West Truck & Rail Load-out	NSPS Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants. [40 CFR 60.670]	DOES NOT APPLY – Constructed before, and has not been modified after August 31, 1983. [40 CFR 60.670 (e)]
EQT 12, Gravelite Diesel Storage Tank EQT 13, Contractor Diesel Storage Tank	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY . Storage tanks were constructed prior to July 23, 1984.
EQT 12, Gravelite Diesel Storage	Storage Vessel of Volatile Organic Compounds. [LAC 33:III. 2103]	DOES NOT APPLY – Storage vessel 12,730 gallons but vapor pressure is < 0.01 psia
EQT 13, Contractor Diesel Storage Tank	Storage Vessel of Volatile Organic Compounds. [LAC 33:III. 2103]	DOES NOT APPLY – Storage vessel 12,730 gallons but vapor pressure is < 0.01 psia
FUG 1, Scalping Screen	NSPS Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants. [40 CFR 60.670]	DOES NOT APPLY – Was constructed before, and has not been modified after 8/31/1983. [40 CFR 60.670 (e)]
FUG 2, Primary Crusher	NSPS Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants. [40 CFR 60.670]	DOES NOT APPLY – Constructed before, and has not been modified after 8/31/1983. [40 CFR 60.670 (e)]

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AGENCY INTEREST NO.: 1272
BIG RIVER INDUSTRIES INC
ERWINVILLE, POINTE COUPEE PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
FUG 3, North Screen FUG 4, South Screen	NSPS Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants. [40 CFR 60.670]	DOES NOT APPLY – Constructed before, and has not been modified after 8/31/1983. [40 CFR 60.670 (e)]
FUG 5, No. 1 Crusher	NSPS Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants. [40 CFR 60.670]	DOES NOT APPLY – Constructed before, and has not been modified after 8/31/1983. [40 CFR 60.670 (e)]
FUG 7, General Conveyor Systems & Stockpiles	NSPS Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants. [40 CFR 60.670]	DOES NOT APPLY – Constructed before, and has not been modified after 8/31/1983. [40 CFR 60.670 (e)]
FUG10, No. 1 Cooler Fugitives FUG11, No. 2 Cooler Fugitives FUG12, No. 3 Cooler Fugitives FUG13, No. 4 Cooler Fugitives	NSPS Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants. [40 CFR 60.670]	DOES NOT APPLY – Constructed before, and has not been modified after 8/31/1983. [40 CFR 60.670 (e)]

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

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- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];

40 CFR PART 70 GENERAL CONDITIONS

2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
 4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of

40 CFR PART 70 GENERAL CONDITIONS

attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]

- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;

40 CFR PART 70 GENERAL CONDITIONS

5. changes in emissions would not qualify as a significant modification; and
 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

40 CFR PART 70 GENERAL CONDITIONS

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated October 14, 1996, along with supplemental information dated January 15, 1998, October 20, 1998, July 12, 2002, July 12, 2005, February 01, 2006, February 16, March 20, April 03, April 19, April 21, April 24, April 26, and May 01, 2006.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
2. Report by September 30 to cover April through June
3. Report by December 31 to cover July through September

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

4. Report by March 31 to cover October through December
 - D. Each report submitted in accordance with this condition shall contain the following information:
 1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
 - E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:

1. Generally be less than 5 TPY
2. Be less than the minimum emission rate (MER)
3. Be scheduled daily, weekly, monthly, etc., or
4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 1272 Gravelite Division
 Activity Number: PER19960001
 Permit Number: 2260-00002-Y0
 Air - Title V Regular Permit Initial

Also Known As:	ID	Name	User Group	Start Date
	2260-00002	Big River Industries	CDS Number	09-02-1990
	2260-00002	Big River Industries	Emission Inventory	03-03-2004
	72-0474298	Federal Tax ID	Federal Tax ID	11-20-1999
LADD008155251		Big River Industries	Hazardous Waste Notification	07-31-1987
LA0090387		LPDES #	LPDES Permit #	10-28-2004
WP3756		WPC State Permit Number	LWDPSS Permit #	06-25-2003
22015		Big River Industrial Gravelite	TEMPO Merge	03-19-2001
70729BGRVR12652		TRI #	Toxic Release Inventory	07-09-2004
61-000703		UST Facility ID (from UST legacy data)	Underground Storage Tanks	10-12-2002
Physical Location:			Main Phone:	2256274255
Mailing Address:	PO Box 66377	Erwinville, LA 708966377		
Location of Front Gate:	30° 31' 33" latitude, 91° 24' 23" longitude,	Coordinate Method: Interpolation - Map, Coordinate Datum: NAD27		
Related People:	Name	Mailing Address	Phone (Type)	Relationship
Betty Beard		231 N Liberty St Opelousas, LA 70570	3379489888 (WP)	Walter Permit Contact For
Brian Dowden		12652 Hwy 190 W Erwinville, LA 70729	2236274242 (WP)	Employed by
Greg Knight		PO Box 66377 Baton Rouge, LA 708966377	2236274242 (WP)	Responsible Official for
Steve McLeod		PO Box 66377 Baton Rouge, LA 708966377	2236274242 (WP)	Air Permit Contact For
Related Organizations:	Name	Address	Phone (Type)	Relationship
Big River Industries Inc		PO Box 66377 Baton Rouge, LA 708966377		Operates
Big River Industries Inc		PO Box 66377 Baton Rouge, LA 708966377		Air Billing Party for
Big River Industries Inc		PO Box 66377 Baton Rouge, LA 708966377		Water Billing Party for
Oldcastle APG Inc		231 N Liberty St Opelousas, LA 70570	3379489888 (WP)	Owes
SIC Codes:	3272, Concrete products, nec			
	3295, Minerals and earths, ground or otherwise treated			

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 1272 - Gravelite Division
 Activity Number: PER19960001
 Permit Number: 2260-00002-V0
 Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT003	EPN 003 No. 3 Rotary Kiln		22 tons/hr	22 tons/hr		8760 hr/yr (All Year)
EQT004	EPN 004 No. 4 Rotary Kiln		22 tons/hr	22 tons/hr		8760 hr/yr (All Year)
EQT005	EPN 005a No. 1 Cooler		22 tons/hr	22 tons/hr	Clay	8760 hr/yr (All Year)
EQT006	EPN 006a No. 2 Cooler		22 tons/hr	22 tons/hr	Clay	8760 hr/yr (All Year)
EQT007	EPN 007a No. 3 Cooler		22 tons/hr	22 tons/hr	Clay	8760 hr/yr (All Year)
EQT008	EPN 008a No. 4 Cooler		22 tons/hr	22 tons/hr	Clay	8760 hr/yr (All Year)
EQT009	EPN 015 East Truck and Rail Loadout (Fugitives)		40 tons/hr	40 tons/hr	Light Aggregate	8760 hr/yr (All Year)
EQT010	EPN 016 West Truck and Rail Loadout (Fugitives)		40 tons/hr	40 tons/hr	Light Aggregate	8760 hr/yr (All Year)
EQT011	EPN 019 Gasoline Storage Tank	3600 gallons/yr	3600 gallons/yr	3600 gallons/yr	Gasoline	8760 hr/yr (All Year)
EQT012	EPN 020 Gravelite Diesel Storage Tank	270000 gallons/yr	270000 gallons/yr	270000 gallons/yr	Diesel	8760 hr/yr (All Year)
EQT013	EPN 021 Contractor Diesel Storage Tank	130000 gallons/yr	130000 gallons/yr	130000 gallons/yr	Diesel	8760 hr/yr (All Year)
EQT014	EPN 001 No. 1 Rotary Kiln	22 tons/hr	22 tons/hr	22 tons/hr		8760 hr/yr (All Year)
EQT015	EPN 002 No. 2 Rotary Kiln	22 tons/hr	22 tons/hr	22 tons/hr		8760 hr/yr (All Year)
FUG001	EPN 009 Scalping Screen (Fugitives)	40 tons/hr	40 tons/hr	40 tons/hr	Clay	8760 hr/yr (All Year)
FUG002	EPN 010 Primary Crusher (Fugitives)	40 tons/hr	40 tons/yr	40 tons/yr	Clay	8760 hr/yr (All Year)
FUG003	EPN 011 North Screen (Fugitives)	40 tons/hr	40 tons/hr	40 tons/hr	Clay	8760 hr/yr (All Year)
FUG004	EPN 012 South Screen (Fugitives)	40 tons/hr	40 tons/hr	40 tons/hr	Clay	8760 hr/yr (All Year)
FUG005	EPN 013 No. 1 Crusher (Fugitives)	40 tons/hr	40 tons/hr	40 tons/hr	Clay	8760 hr/yr (All Year)
FUG007	EPN 017a General Conveyor Systems & Stockpiles (Fugitives)	40 tons/hr	40 tons/hr	40 tons/hr	Clay	8760 hr/yr (All Year)
FUG008	EPN 017b Night Stock Pile Conveyor System	40 tons/hr	40 tons/hr	40 tons/hr	Clay	8760 hr/yr (All Year)
FUG009	EPN 018 Double Deck Clean-up Screen (Fugitives)	40 tons/hr	40 tons/hr	40 tons/hr	Clay	8760 hr/yr (All Year)
FUG010	EPN 005b No. 1 Cooler Fugitives				Clay	8760 hr/yr (All Year)
FUG011	EPN 006b No. 2 Cooler Fugitives				Clay	8760 hr/yr (All Year)
FUG012	EPN 007b No. 3 Cooler Fugitives				Clay	8760 hr/yr (All Year)
FUG013	EPN 008b No. 4 Cooler Fugitives				Road dust	8760 hr/yr (All Year)
FUG014	EPN 022 Unpaved Road Fugitives				Road dust	8760 hr/yr (All Year)
FUG015	EPN 023 Clinker Crushing and Handling				Road dust	8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP004	Entire Facility	EQT3 EPN 003 No. 3 Rotary Kiln
GRP004	Entire Facility	EQT4 EPN 004 No. 4 Rotary Kiln
GRP004	Entire Facility	EQT5 EPN 005a No. 1 Cooler
GRP004	Entire Facility	EQT6 EPN 006a No. 2 Cooler
GRP004	Entire Facility	EQT7 EPN 007a No. 3 Cooler
GRP004	Entire Facility	EQT8 EPN 008a No. 4 Cooler

INVENTORIES

AI ID: 1272 - Gravelite Division
 Activity Number: PER19960001
 Permit Number: 2260-00002-V0
 Air - Title V Regular Permit Initial

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP004	Entire Facility	EQT9 EPN 015 East Truck and Rail Loadout (Fugitives)
GRP004	Entire Facility	EQT10 EPN 016 West Truck and Rail Loadout (Fugitives)
GRP004	Entire Facility	EQT11 EPN 019 Gasoline Storage Tank
GRP004	Entire Facility	EQT12 EPN 020 Gravelite Diesel Storage Tank
GRP004	Entire Facility	EQT13 EPN 021 Contractor Diesel Storage Tank
GRP004	Entire Facility	EQT14 EPN 001 No. 1 Rotary Kiln
GRP004	Entire Facility	EQT15 EPN 002 No. 2 Rotary Kiln
GRP004	Entire Facility	FUG1 EPN 009 Scalping Screen (Fugitives)
GRP004	Entire Facility	FUG2 EPN 010 Primary Crusher (Fugitives)
GRP004	Entire Facility	FUG3 EPN 011 North Screen (Fugitives)
GRP004	Entire Facility	FUG4 EPN 012 South Screen (Fugitives)
GRP004	Entire Facility	FUG5 EPN 013 No. 1 Crusher (Fugitives)
GRP004	Entire Facility	FUG7 EPN 017a General Conveyor Systems & Stockpiles (Fugitives)
GRP004	Entire Facility	FUG8 EPN 017b Night Stock Pile Conveyor System
GRP004	Entire Facility	FUG9 EPN 018 Double Deck Clean-up Screen (Fugitives)
GRP004	Entire Facility	FUG10 EPN 005b No. 1 Colder Fugitives
GRP004	Entire Facility	FUG11 EPN 006b No. 2 Colder Fugitives
GRP004	Entire Facility	FUG12 EPN 007b No. 3 Colder Fugitives
GRP004	Entire Facility	FUG13 EPN 008b No. 4 Colder Fugitives
GRP004	Entire Facility	FUG14 EPN 022 Unpaved Road Fugitives
GRP004	Entire Facility	FUG15 EPN 023 Clinker Crushing and Handling
GRP004	Entire Facility	GRP7 Rotary Kilns Emissions CAP during Phase I
GRP007	Rotary Kilns Emissions CAP during Phase I	EQT3 EPN 003 No. 3 Rotary Kiln
GRP007	Rotary Kilns Emissions CAP during Phase I	EQT4 EPN 004 No. 4 Rotary Kiln
GRP007	Rotary Kilns Emissions CAP during Phase I	EQT14 EPN 001 No. 1 Rotary Kiln
GRP007	Rotary Kilns Emissions CAP during Phase I	EQT15 EPN 002 No. 2 Rotary Kiln

Relationships:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT003	EPN 003	No. 3 Rotary Kiln	45.25	34118	4	75
EQT004	EPN 004	No. 4 Rotary Kiln	45.25	34118	4	75
EQT005	EPN 005a	No. 1 Colder	26.8	29130	4.8	38
EQT006	EPN 006a	No. 2 Colder	26.8	29130	4.8	38
EQT007	EPN 007a	No. 3 Colder	26.8	29130	4.8	38
EQT008	EPN 008a	No. 4 Colder	26.8	29130	4.8	38

INVENTORIES

AI ID: 1272 - Gravelite Division
 Activity Number: PER19960001
 Permit Number: 2260-00002-V0
 Air - Title V Regular Permit Initial

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT011 EPN 019	Gasoline Storage Tank					
EQT012 EPN 020	Gravelite Diesel Storage Tank					
EQT013 EPN 021	Contractor Diesel Storage Tank					
EQT014 EPN 001	No. 1 Rotary Kiln	45.25	3411.8	4	75	177
EQT015 EPN 002	No. 2 Rotary Kiln	45.25	3411.8	4	75	177
FUG001 EPN 009	Scalping Screen (Fugitives)					25
FUG002 EPN 010	Primary Crusher (Fugitives)					15
FUG003 EPN 011	North Screen (Fugitives)					40
FUG004 EPN 012	South Screen (Fugitives)					40
FUG005 EPN 013	No. 1 Crusher (Fugitives)					20
FUG007 EPN 017a	General Conveyor Systems & Stockpiles (Fugitives)					
FUG008 EPN 017b	Night Stock Pile Conveyor System					
FUG009 EPN 018	Double Deck Clean-up Screen (Fugitives)					
FUG010 EPN 005b	No. 1 Cooler Fugitives					
FUG011 EPN 006b	No. 2 Cooler Fugitives					
FUG012 EPN 007b	No. 3 Cooler Fugitives					
FUG013 EPN 008b	No. 4 Cooler Fugitives					
FUG014 EPN 022	Unpaved Road Fugitives					
FUG015 EPN 023	Clinker Crushing and Handling					

Fee Information:

Sub Item Id	Multiplier	Units Of Measure	Fee Desc
GRP004	4		0860 - Clay Kiln
	580		0815 - Concrete Products

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1272 - Gravelite Division
 Activity Number: PER19960001
 Permit Number: 2260-00002-V0
 Air - Title V Regular Permit Initial

All phases

Subject Item	PM ₁₀	NOx			CO			VOC		
		Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 003 EPN 003	0.97	0.97	4.23	57.22	57.22	250.64	8.43	8.43	36.92	0.67
EQT 004 EPN 004	0.97	0.97	4.23	57.22	57.22	250.64	8.43	8.43	36.92	0.67
EQT 005 EPN 005a	1.67	1.67	7.30							
EQT 006 EPN 006a	1.67	1.67	7.30							
EQT 007 EPN 007a	1.67	1.67	7.30							
EQT 008 EPN 008a	1.67	1.67	7.30							
EQT 009 EPN 009	0.01	0.01	0.05							
EQT 010 EPN 010	0.01	0.01	0.05							
EQT 011 EPN 011										
EQT 012 EPN 020										
EQT 013 EPN 021										
EQT 014 EPN 001	0.97	0.97	4.23	57.22	57.22	250.64	8.43	8.43	36.92	0.67
EQT 015 EPN 002	0.97	0.97	4.23	57.22	57.22	250.64	8.43	8.43	36.92	0.67
FUG 001 EPN 009	0.07	0.07	0.33							
FUG 002 EPN 010	0.01	0.01	0.05							
FUG 003 EPN 011	0.06	0.06	0.26							
FUG 004 EPN 012	0.06	0.06	0.26							
FUG 005 EPN 013	0.01	0.01	0.04							

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1272 - Gravelite Division
 Activity Number: PER19960001
 Permit Number: 2260-00002-V0
 Air - Title V Regular Permit Initial

All phases

Subject Item	PM ₁₀		NOx		CO		VOC	
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr
FUG 007 EPN 017a	0.10	0.10	0.43					
FUG 008 EPN 017b	0.04	0.04	0.17					
FUG 009 EPN 018	0.36	0.36	1.56					
FUG 010 EPN 005b	0.02	0.02	0.08					
FUG 011 EPN 006b	0.02	0.02	0.08					
FUG 012 EPN 007b	0.02	0.02	0.08					
FUG 013 EPN 008b	0.02	0.02	0.08					
FUG 014 EPN 022	0.70	0.70	3.05					
FUG 015 EPN 023	< 0.01	< 0.01	0.01					

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 52.70 tons/yr
 SO₂: 258.08 tons/yr
 NOx: 1002.56 tons/yr
 CO: 147.68 tons/yr
 VOC: 11.97 tons/yr

Emission rates Notes:

EMISSION RATES FOR CRITERIA POLLUTANTS

AID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-0002-V0
Air - Title V Regular Permit Initial

Phase I

Subject Item	SO ₂		
	Avg lb/hr	Max lb/hr	Tons/Year
EQT 003 EPN 003		21.25	
EQT 004 EPN 004		21.25	
EQT 014 EPN 001		21.25	
EQT 015 EPN 002		21.25	
GRP 007	58.92		258.08

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

Emission rates Notes:

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

Phase II

Subject Item	SO ₂		
	Avg lb/hr	Max lb/hr	Tons/Year
EQT 003 EPN 003	14.73	14.73	64.52
EQT 004 EPN 004	14.73	14.73	64.52
EQT 014 EPN 001	14.73	14.73	64.52
EQT 015 EPN 002	14.73		64.52

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

EQT003 EPN 003 No. 3 Rotary Kiln

- 1 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 2 Total suspended particulate <= 32.1 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
- 3 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
- 4 Sulfur dioxide recordkeeping by electronic or hard copy annually. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 5 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
- 6 Lime Slurry Flow rate >= 700 gallons/min. [LAC 33:III.501.C.6]
- 7 pH >= 5.8 s.u. [LAC 33:III.501.C.6]
- 8 Lime slurry Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]
- 9 pH monitored by pH instrument once every four hours. [LAC 33:III.501.C.6]
- 10 Lime slurry Flow rate recordkeeping by electronic or hard copy once every four hours. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]
- 11 pH recordkeeping by electronic or hard copy once every four hours. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]
- 12 Sulfur dioxide recordkeeping by electronic or hard copy monthly. Keep records of the aggregate totals of sulfur dioxide emissions from all four rotary kilns each month, as well as the aggregate totals of sulfur dioxide emissions from all four rotary kilns for the last twelve months.

The sulfur dioxide emissions are calculated using the formulae given below:

$$\text{SO}_2 \text{ (tons/month)} = \{Q_{\text{coal}} * (S_{\text{coal}})^*(1 - \text{eff})\}$$

Where:

Q_{coal} : Kiln monthly combusted coal in tons,

S_{coal} : percent sulfur content of coal by weight (<= 1.5%),

eff: scrubber SO₂ removal efficiency (>= 80%).

Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]
Phases: Phase I

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

EQT003 EPN 003 No. 3 Rotary Kiln

- 13 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 14 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 15 Sulfur dioxide recordkeeping by electronic or hard copy monthly. Keep records of the total sulfur dioxide emissions each month, as well as the total sulfur dioxide emissions for the last twelve months. Sulfur dioxide emissions are calculated using the formulae given below.

$$SO_2 \text{ (tons/month)} = \{Q_{coal} * (S_{coal}) + Q_{ coke } * (S_{ coke }) * (1 - eff)\}$$

Where:

Q_{coal}: Kiln monthly combusted coal in tons,
Q _{coke} : Kiln monthly combusted petroleum coke in tons,
S_{coal}: percent sulfur content of coal by weight (<= 1.5%),
S _{coke} : percent sulfur content of petroleum coke by weight (<= 5.0%),
eff: scrubber SO₂ removal efficiency (>=93%).

Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]
Phases: Phase II

- 16 Flow rate: Permittee may request to change a scrubber's flow rate, the solution pH, or both through an administrative amendment in accordance with the results of the corresponding performance test. [LAC 33:III.501.C.6]
- 17 Line slurry scrubber: Sulfur dioxide >= 93 % removal efficiency as determined in accordance with a performance test using test method approved by LDEQ. Compliance with this limitation is shown by operating the wet scrubber within the ranges of the operating parameters (lime slurry flow rate and pH) established by the corresponding performance test. [LAC 33:III.501.C.6]
- 18 Line slurry scrubber: Sulfur dioxide >= 80 % removal efficiency as determined in accordance with a performance test using test method approved by LDEQ. Compliance with this limitation is shown by operating the lime slurry wet scrubber within the ranges of the operating parameters (lime slurry flow rate and pH) established by the corresponding performance test. [LAC 33:III.501.C.6]
- 19 Which Months: All Year Phases: Phase I Statistical Basis: None specified
Sulfur <= 3.25 % by weight at standard conditions. The maximum sulfur content of the coal/petroleum coke fuel mixture shall not exceed the limit set by this condition. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the maximum sulfur content of the coal/petroleum coke mixture exceeds the maximum listed in this specific condition. [LAC 33:III.501.C.6]
- 20 Sulfur recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the maximum sulfur content of the coal combusted by the rotary kilns each month, as well as the maximum sulfur content of the coal combusted by the rotary kilns for the past twelve consecutive months. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

EQT003 EPN 003 No. 3 Rotary Kiln

21 Sulfur recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the maximum sulfur content by percent weight of the coal petroleum coke mixture used in firing the rotary kilns each month, as well as the maximum sulfur content by percent weight of the coal petroleum coke mixture used in firing the rotary kilns for the past twelve consecutive months.

The sulfur content of the coal petroleum coke mixture is calculated using the formulae given below:

$$Sm = Soco * Rcc + Scoal * (1 - Rcc)$$

Where:

Sm: percent sulfur content in the coal petroleum coke mixture (fuel),

Soco: maximum percent sulfur content in the coal,

Soco: maximum percent sulfur content in the petroleum coke ,

Rcc: the petroleum coke percent by weight of the coal petroleum coke mixture (≤ 0.50). [LAC 33:III.501.C.6]

Phases: Phase II

22 Fuel recordkeeping by electronic or hard copy daily. Keep records of the daily combusted coal and the corresponding maximum percent sulfur content by weight. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]

23 Fuel: the rotary kilns on site shall be fired with coal petroleum coke fuel mixtures up to 50% petroleum coke only. The sulfur content of the coal and petroleum coke of the mixtures shall not exceed 1.5 % and 5.0% by weight, respectively. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the sulfur content of the rotary kilns fuel coal and petroleum coke exceeds the maximum values listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6], Phases: Phase II

Phases: Phase II

24 Fuel recordkeeping by electronic or hard copy daily. Keep records of the daily combusted petroleum coke and the corresponding percent sulfur content by weight. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]

Phases: Phase II

25 Sulfur $\leq 1.5\%$ by weight. The maximum sulfur content of the coal shall not exceed the limit set in this condition. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the maximum sulfur content of the coal exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Maximum value

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

EQT003 EPN 003 No. 3 Rotary Kiln

26 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and the scrubber's SO₂ removal efficiency of at least 80.0%. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 6 - Determination of Sulfur Dioxide Emissions from Stationary Sources, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources, Method 5 - Determination of Particulate Matter (PM10) Emissions from Stationary Sources, and Method 25A - Determination of Determination of total gaseous organic concentration using a flame ionization analyzer. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

Establish the minimum scrubbing lime slurry flow rate and the minimum pH value or range (surrogate operating parameters) which ensures continuous compliance with the above stated scrubber's SO₂ removal efficiency.

Modify the permit to incorporate the established scrubbing lime slurry rate or range and the pH value or range. [LAC 33:III.501.C.6], Phases: Phase I
Phases: Phase I

27 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and the scrubber's SO₂ removal efficiency of at least 93.0%. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 6 - Determination of Sulfur Dioxide Emissions from Stationary Sources, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources, Method 5 - Determination of Particulate Matter (PM10) Emissions from Stationary Sources, and Method 25A - Determination of Determination of total gaseous organic concentration using a flame ionization analyzer. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

Establish the minimum scrubbing lime slurry flow rate and the minimum pH value or range (surrogate operating parameters) which ensures continuous compliance with the above stated scrubber's SO₂ removal efficiency.

Modify the permit to incorporate the established scrubbing lime slurry rate or range and the pH value or range [LAC 33:III.501.C.6], Phases: Phase II
Phases: Phase II

28 Water Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.509]
Which Months: All Year Statistical Basis: None specified

29 Venturi wet scrubber: Particulate matter (10 microns or less) >= 99.6 % removal efficiency as determined in accordance with a performance test using test method approved by LDEQ. Compliance with this limitation is shown by operating the Venturi scrubber within the range of the operating parameter (water flow rate) established by the corresponding performance test. [LAC 33:III.509]
Which Months: All Year Statistical Basis: None specified

30 Water Flow rate recordkeeping by electronic or hard copy once every four hours. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.509]

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

EQT003 EPN 003 No. 3 Rotary Kiln

- 31 Conduct a performance test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The test's purpose is to demonstrate compliance with the emissions limits and/or the Venturi scrubber's PM10 removal efficiency of at least 99.6%.

Establish the minimum Venturi scrubber water flow rate (surrogate operating parameter) which ensures continuous compliance with the above stated Venturi scrubber's PM10 removal efficiency.

Modify the permit to incorporate the established scrubbing water flow rate value or range

[LAC 33:III.509]

- 32 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

EQT004 EPN 004 No. 4 Rotary Kiln

- 33 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 34 Total suspended particulate <= 32.1 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
- Which Months: All Year Statistical Basis: None specified
- 35 Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average

- 36 Sulfate <= 3.25 % by weight at standard conditions. The maximum sulfur content of the coal petroleum coke fuel mixture shall not exceed the limit set by this condition. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the maximum sulfur content of the coal petroleum coke mixture exceeds the maximum listed in this specific condition. [LAC 33:III.1503.C.6]
- Which Months: All Year Phases: Phase II Statistical Basis: Maximum value

- 37 Sulfur dioxide recordkeeping by electronic or hard copy annually. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 38 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
- 39 pH >= 5.8 s.u. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 40 Lime slurry Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified

- 41 pH monitored by pH instrument once every four hours. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 42 Lime slurry Flow rate recordkeeping by electronic or hard copy once every four hours. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

EQT004 EPN 004 No. 4 Rotary Kiln

- 43 pH recordkeeping by electronic or hard copy once every four hours. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]
- 44 Sulfur dioxide recordkeeping by electronic or hard copy monthly. Keep records of the aggregate totals of sulfur dioxide emissions from all four rotary kilns each month, as well as the aggregate totals of sulfur dioxide emissions from all four rotary kilns for the last twelve months.

The sulfur dioxide emissions are calculated using the formulae given below:

$$\text{SO}_2 \text{ (tons/month)} = \{Q_{\text{coal}} * (S_{\text{coal}}) * (1 - \text{eff})\}$$

Where:

Qcoal: Kiln monthly combusted coal in tons,
Scoal: percent sulfur content of coal by weight (<= 1.5%),
eff: scrubber SO₂ removal efficiency (>= 80%).

Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]

Phases: Phase I

- 45 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 46 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 47 Sulfur dioxide recordkeeping by electronic or hard copy monthly. Keep records of the total sulfur dioxide emissions each month, as well as the total sulfur dioxide emissions for the last twelve months. Sulfur dioxide emissions are calculated using the formulae given below:

$$\text{SO}_2 \text{ (tons/month)} = \{Q_{\text{coal}} * (S_{\text{coal}}) + Q_{\text{coke}} * (S_{\text{coke}}) * (1 - \text{eff})\}$$

Where:

Qcoal: Kiln monthly combusted coal in tons,
Qcoke: Kiln monthly combusted petroleum coke in tons,
Scoal : percent sulfur content of coal by weight (<= 1.5%),
Scoke: percent sulfur content of petroleum coke by weight (<= 5.0%),
eff: scrubber SO₂ removal efficiency (>= 93%).

Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]

Phases: Phase II

- 48 Flow rate: Permittee may request to change a scrubber's flow rate, the solution pH, or both through an administrative amendment in accordance with the results of the corresponding performance test. [LAC 33:III.501.C.6]
- 49 Lime slurry scrubber: Sulfur dioxide >= 93 % removal efficiency as determined in accordance with a performance test using test method approved by LDEQ. Compliance with this limitation is shown by operating the wet scrubber within the ranges of the operating parameters (lime slurry flow rate and pH) established by the corresponding performance test. [LAC 33:III.501.C.6]
Which Months: All Year Phases: Phase II Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

EQT004 EPN 004 No. 4 Rotary Kiln

50 Lime slurry scrubber: Sulfur dioxide >= 80 % removal efficiency as determined in accordance with a performance test using test method approved by LDEQ. Compliance with this limitation is shown by operating the lime slurry wet scrubber within the ranges of the operating parameters (lime slurry flow rate and pH) established by the corresponding performance test. [LAC 33:III.501.C.6]

Which Months: All Year Phases: Phase I Statistical Basis: None specified

51 Sulfur recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the maximum sulfur content of the coal combusted by the rotary kilns each month, as well as the maximum sulfur content of the coal combusted by the rotary kilns for the past twelve consecutive months. [LAC 33:III.501.C.6]

Phases: Phase I

52 Sulfur recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the maximum sulfur content by percent weight of the coal petroleum coke mixture used in firing the rotary kilns each month, as well as the maximum sulfur content by percent weight of the coal petroleum coke mixture used in firing the rotary kilns for the past twelve consecutive months.

The sulfur content of the coal petroleum coke mixture is calculated using the formulae given below:

$$Sm = Soco * Rcc + Scoal * (1 - Rcc)$$

Where:

Sm: percent sulfur content in the coal petroleum coke mixture (fuel),

Scoal : maximum percent sulfur content in the coal,

Soco: maximum percent sulfur content in the petroleum coke,

Rcc: the petroleum coke percent by weight of the coal petroleum coke mixture (<= 0.50). [LAC 33:III.501.C.6]

Phases: Phase II

53 Fuel recordkeeping by electronic or hard copy daily. Keep records of the daily combusted coal and the corresponding percent sulfur content by weight. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]

54 Fuel recordkeeping by electronic or hard copy daily. Keep records of the daily combusted petroleum coke and the corresponding percent sulfur content by weight. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]

Phases: Phase II

55 Fuel: the rotary kilns on site shall be fired with coal petroleum coke fuel mixtures up to 50% petroleum coke only. The sulfur content of the coal and petroleum coke of the mixtures shall not exceed 1.5 % and 5.0% by weight, respectively. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the sulfur content of the rotary kilns fuel coal and petroleum coke exceeds the maximum values listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6], Phases: Phase II

Phases: Phase II

56 Sulfur <= 1.5 % by weight. The maximum sulfur content of the coal shall not exceed the limit set in this condition. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the maximum sulfur content of the coal exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Maximum value

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

EQT004 EPN 004 No. 4 Rotary Kiln

57 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and the scrubber's SO₂ removal efficiency of at least 80.0%. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 6 - Determination of Sulfur Dioxide Emissions from Stationary Sources, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources, Method 5 - Determination of Particulate Matter (PM10) Emissions from Stationary Sources, and Method 25A - Determination of Determination of total gaseous organic concentration using a flame ionization analyzer. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

Establish the minimum scrubbing lime slurry flow rate and the minimum pH value or range (surrogate operating parameters) which ensures continuous compliance with the above stated scrubber's SO₂ removal efficiency.

Modify the permit to incorporate the established scrubbing lime slurry rate or range and the pH value or range. [LAC 33:III.501.C.6], Phases: Phase I
Phases: Phase I

58 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and the scrubber's SO₂ removal efficiency of at least 93.0%. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 6 - Determination of Sulfur Dioxide Emissions from Stationary Sources, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources, Method 5 - Determination of Particulate Matter (PM10) Emissions from Stationary Sources, and Method 25A - Determination of Determination of total gaseous organic concentration using a flame ionization analyzer. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

Establish the minimum scrubbing lime slurry flow rate and the minimum pH value or range (surrogate operating parameters) which ensures continuous compliance with the above stated scrubber's SO₂ removal efficiency.

Modify the permit to incorporate the established scrubbing lime slurry rate or range and the pH value or range. [LAC 33:III.501.C.6], Phases: Phase II
Phases: Phase II

59 Lime Slurry Flow rate >= 700 gallons/min. [LAC 33:III.501]
Which Months: All Year Statistical Basis: None specified

60 Water Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.509]
Which Months: All Year Statistical Basis: None specified

61 Venturi wet scrubber: Particulate matter (10 microns or less) >= 99.6 % removal efficiency as determined in accordance with a performance test using test method approved by LDEQ. Compliance with this limitation is shown by operating the Venturi scrubber within the range of the operating parameter (water flow rate) established by the corresponding performance test. [LAC 33:III.509]
Which Months: All Year Statistical Basis: None specified

62 Water Flow rate recordkeeping by electronic or hard copy once every four hours. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.509]

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-000002-V0
Air - Title V Regular Permit Initial

EQT004 EPN 004 No. 4 Rotary Kiln

- 63 Conduct a performance test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The test's purpose is to demonstrate compliance with the emissions limits and/or the Venturi scrubber's PM10 removal efficiency of at least 99.6%.

Establish the minimum Venturi scrubber water flow rate (surrogate operating parameter) which ensures continuous compliance with the above stated Venturi scrubber's PM10 removal efficiency.

Modify the permit to incorporate the established scrubbing water flow rate value or range. [LAC 33.III.509]

- 64 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33.III.905]

EQT005 EPN 005a No. 1 Cooler

65 Total suspended particulate <= 32.46 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33.III.1311.B]

Which Months: All Year Statistical Basis: None specified

- 66 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33.III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

- 67 Conduct a stack emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limit of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 5 - Determination of Particulate Matter Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33.III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33.III.509]

- 68 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33.III.905]

EQT006 EPN 006a No. 2 Cooler

69 Total suspended particulate <= 32.46 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33.III.1311.B]

Which Months: All Year Statistical Basis: None specified

- 70 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33.III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

EQT006 EPN 006a No. 2 Cooler

- 71 Conduct a stack emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limit of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 5 - Determination of Particulate Matter Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.509]
- 72 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

EQT007 EPN 007a No. 3 Cooler

- 73 Total suspended particulate <= 32.46 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
Which Months: All Year Statistical Basis: None specified
- 74 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 75 Conduct a stack emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limit of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources, Method 5 - Determination of Particulate Matter (PM10) Emissions from Stationary Sources, and Method 25A - Determination of Concentration of total gaseous organic concentration using a flame ionization analyzer. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.509]
- 76 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

EQT008 EPN 008a No. 4 Cooler

- 77 Total suspended particulate <= 32.46 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
Which Months: All Year Statistical Basis: None specified
- 78 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-y0
Air - Title V Regular Permit Initial

EQT008 EPN 008a No. 4 Cooler

- 79 Conduct a stack emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limit of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources, Method 5 - Determination of Particulate Matter (PM10) Emissions from Stationary Sources, and Method 25A - Determination of Determination of total gaseous organic concentration using a flame ionization analyzer. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.509]
- 80 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

EQT009 EPN 015 East Truck and Rail Loadout (Fugitives)

- 81 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 82 Total suspended particulate <= 42.5 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
- Which Months: All Year Statistical Basis: None specified
- 83 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 84 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

EQT010 EPN 016 West Truck and Rail Loadout (Fugitives)

- 85 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 86 Total suspended particulate <= 42.5 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
- Which Months: All Year Statistical Basis: None specified
- 87 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 88 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

EQT011 EPN 019 Gasoline Storage Tank

- 89 Equip with a submerged fill pipe. [LAC 33:III.2103.A]

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

EQT014 EPN 001 No. 1 Rotary Kiln

- 90 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 91 Total suspended particulate <= 32.1 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
- Which Months: All Year Statistical Basis: None specified
- 92 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 93 Sulfur <= 3.25 % by weight at standard conditions. The maximum sulfur content of the coal petroleum coke fuel mixture shall not exceed the limit set by this condition. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the maximum sulfur content of the coal petroleum coke mixture exceeds the maximum listed in this specific condition. [LAC 33:III.1503.C.6]
- Which Months: All Year Phases: Phase II Statistical Basis: Maximum value
- 94 Sulfur dioxide recordkeeping by electronic or hard copy annually. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 95 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
- 96 Lime Slurry Flow rate >= 700 gallons/min. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 97 pH >= 5.8 s.u. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 98 Lime slurry Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 99 pH monitored by pH instrument once every four hours. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 100 Lime slurry Flow rate recordkeeping by electronic or hard copy once every four hours. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]
- 101 pH recordkeeping by electronic or hard copy once every four hours. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]
- 102 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 103 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-Y0
Air - Title V Regular Permit Initial

EQT014 EPN 001 No. 1 Rotary Kiln

104 Sulfur dioxide recordkeeping by electronic or hard copy monthly. Keep records of the total sulfur dioxide emissions each month, as well as the total sulfur dioxide emissions for the last twelve months. Sulfur dioxide emissions are calculated using the formulae given below:

$$\text{SO}_2 \text{ (tons/month)} = \{Q_{\text{coal}} * (S_{\text{coal}}) + Q_{\text{coke}} * (S_{\text{coke}}) * (1 - \text{eff})\}$$

Where:

Q_{coal}: Kiln monthly combusted coal in tons,
Q_{coke}: Kiln monthly combusted petroleum coke in tons,
S_{coal} : percent sulfur content of coal by weight (<= 1.5%),
S_{coke}: percent sulfur content of petroleum coke by weight (<= 5.0%),
eff: scrubber SO₂ removal efficiency (>=93%).

Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]
Phases: Phase II

105 Flow rate: Permittee may request to change a scrubber's flow rate, the solution pH, or both through an administrative amendment in accordance with the results of the corresponding performance test. [LAC 33:III.501.C.6]

106 Lime slurry scrubber: Sulfur dioxide >= 93 % removal efficiency as determined in accordance with a performance test using test method approved by LDEQ. Compliance with this limitation is shown by operating the wet scrubber within the ranges of the operating parameters (lime slurry flow rate and pH) established by the corresponding performance test. [LAC 33:III.501.C.6]

Which Months: All Year Phases: Phase II Statistical Basis: None specified
107 Lime slurry scrubber: Sulfur dioxide >= 80 % removal efficiency as determined in accordance with a performance test using test method approved by LDEQ. Compliance with this limitation is shown by operating the lime slurry wet scrubber within the ranges of the operating parameters (lime slurry flow rate and pH) established by the corresponding performance test. [LAC 33:III.501.C.6]

Which Months: All Year Phases: Phase I Statistical Basis: None specified

108 Sulfur <= 1.5 % by weight. The maximum sulfur content of the coal shall not exceed the limit set in this condition. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the maximum sulfur content of the coal exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Maximum value
109 Sulfur recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the maximum sulfur content of the coal combusted by the rotary kilns each month, as well as the maximum sulfur content of the coal combusted by the rotary kilns for the past twelve consecutive months. [LAC 33:III.501.C.6]
Phases: Phase I

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-000002-V0
Air - Title V Regular Permit Initial

EQT014 EPN 001 No. 1 Rotary Kiln

110 Sulfur recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the maximum sulfur content by percent weight of the coal petroleum coke mixture used in firing the rotary kilns for the past twelve consecutive months.

The sulfur content of the coal petroleum coke mixture is calculated using the formulae given below:

$$Sm = Soco * Rcc + Scoal * (1 - Rcc)$$

Where:

Sm: percent sulfur content in the coal petroleum coke mixture (fuel),

Scoal: maximum percent sulfur content in the coal,

Soco: maximum percent sulfur content in the petroleum coke,

Rcc: the petroleum coke percent by weight of the coal petroleum coke mixture (≤ 0.50). [LAC 33:III.501.C.6]

Phases: Phase II

111 Fuel recordkeeping by electronic or hard copy daily. Keep records of the daily combusted coal and the corresponding maximum percent sulfur content by weight. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]

112 Fuel recordkeeping by electronic or hard copy daily. Keep records of the daily combusted petroleum coke and the corresponding maximum percent sulfur content by weight. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]

Phases: Phase II

113 Sulfur dioxide recordkeeping by electronic or hard copy monthly. Keep records of the aggregate totals of sulfur dioxide emissions from all four rotary kilns each month, as well as the aggregate totals of sulfur dioxide emissions from all four rotary kilns for the last twelve months.

The sulfur dioxide emissions are calculated using the formulae given below:

$$SO2 \text{ (tons/month)} = \{Qcoal * (Scoal) * (1 - eff)\}$$

Where:

Qcoal: Kiln monthly combusted coal in tons,

Scoal: percent sulfur content of coal by weight ($\leq 1.5\%$),

eff: scrubber SO₂ removal efficiency ($\geq 80\%$).

Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]

Phases: Phase I

114 Fuel: the rotary kilns on site shall be fired with coal petroleum coke fuel mixtures up to 50% petroleum coke only. The sulfur content of the coal and petroleum coke of the mixtures shall not exceed 1.5 % and 5.0% by weight, respectively. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the sulfur content of the rotary kilns fuel coal and petroleum coke exceeds the maximum values listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6], Phases: Phase II

Phases: Phase II

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-Y0
Air - Title V Regular Permit Initial

EQT014 EPN 001 No. 1 Rotary Kiln

115 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and the scrubber's SO₂ removal efficiency of at least 93.0%. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 6 - Determination of Sulfur Dioxide Emissions from Stationary Sources, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources, Method 5 - Determination of Particulate Matter (PM10) Emissions from Stationary Sources, and Method 25A - Determination of Determination of total gaseous organic concentration using a flame ionization analyzer. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

Establish the minimum scrubbing lime slurry flow rate and the minimum pH value or range (surrogate operating parameters) which ensures continuous compliance with the above stated scrubber's SO₂ removal efficiency.

Modify the permit to incorporate the established scrubbing lime slurry rate or range and the pH value or range
[LAC 33:III.501.C.6], Phases: Phase II
Phases: Phase II

116 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and the scrubber's SO₂ removal efficiency of at least 80.0%. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 6 - Determination of Sulfur Dioxide Emissions from Stationary Sources, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources, Method 5 - Determination of Particulate Matter (PM10) Emissions from Stationary Sources, and Method 25A - Determination of Determination of total gaseous organic concentration using a flame ionization analyzer. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

Establish the minimum scrubbing lime slurry flow rate and the minimum pH value or range (surrogate operating parameters) which ensures continuous compliance with the above stated scrubber's SO₂ removal efficiency.

Modify the permit to incorporate the established scrubbing lime slurry rate or range and the pH value or range [LAC 33:III.501.C.6], Phases: Phase I
Phases: Phase I

117 Water Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.509]

Which Months: All Year Statistical Basis: None specified
118 Venturi wet scrubber: Particulate matter (10 microns or less) \geq 99.6 % removal efficiency as determined in accordance with a performance test using test method approved by LDEQ. Compliance with this limitation is shown by operating the Venturi scrubber within the range of the operating parameter (water flow rate) established by the corresponding performance test. [LAC 33:III.509]
Which Months: All Year Statistical Basis: None specified

119 Water Flow rate recordkeeping by electronic or hard copy once every four hours. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.509]

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

EQT014 EPN 001 No. 1 Rotary Kiln

- 120 Conduct a performance test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The test's purpose is to demonstrate compliance with the emissions limits and/or the Venturi scrubber's PM10 removal efficiency of at least 99.6%.

Establish the minimum Venturi scrubber water flow rate (surrogate operating parameter) which ensures continuous compliance with the above stated Venturi scrubber's PM10 removal efficiency.

Modify the permit to incorporate the established scrubbing water flow rate value or range. [LAC 33:III.509]

- 121 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

EQT015 EPN 002 No. 2 Rotary Kiln

- 122 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

- 123 Total suspended particulate <= 32.1 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]

Which Months: All Year Statistical Basis: None specified

- 124 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

- 125 Sulfur dioxide recordkeeping by electronic or hard copy annually. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

126 Lime slurry Flow rate >= 700 gallons/min. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

- 127 pH >= 5.8 s.u. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

- 128 Lime slurry Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

- 129 pH monitored by pH instrument once every four hours. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

- 130 Lime slurry Flow rate recordkeeping by electronic or hard copy once every four hours. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]

- 131 pH recordkeeping by electronic or hard copy once every four hours. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-Y0
Air - Title V Regular Permit Initial

EQT015 EPN 002 No. 2 Rotary Kiln

132 Sulfur dioxide recordkeeping by electronic or hard copy monthly. Keep records of the aggregate totals of sulfur dioxide emissions from all four rotary kilns each month, as well as the aggregate totals of sulfur dioxide emissions from all four rotary kilns for the last twelve months.

The sulfur dioxide emissions are calculated using the formulae given below:

$$\text{SO2 (tons/month)} = \{Q_{\text{coal}} * (S_{\text{coal}}) * (1 - \text{eff})\}$$

Where:

Qcoal: Kiln monthly combusted coal in tons,

Scoal: percent sulfur content of coal by weight (<= 1.5%),

eff: scrubber SO2 removal efficiency (>= 80%).

Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]
Phases: Phase I

133 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

134 Sulfur dioxide recordkeeping by electronic or hard copy monthly. Keep records of the total sulfur dioxide emissions each month, as well as the total sulfur dioxide emissions for the last twelve months. Sulfur dioxide emissions are calculated using the formulae given below:

$$\text{SO2 (tons/month)} = \{Q_{\text{coal}} * (S_{\text{coal}}) + Q_{\text{coke}} * (S_{\text{coke}}) * (1 - \text{eff})\}$$

Where:

Qcoal: Kiln monthly combusted coal in tons,

Qcoke: Kiln monthly combusted petroleum coke in tons,

Scoal : percent sulfur content of coal by weight (<= 1.5%),

Scoke: percent sulfur content of petroleum coke by weight (<= 5.0%),

eff: scrubber SC2 removal efficiency (>=9.9%).

Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]
Phases: Phase II

135 Flow rate: Permittee may request to change a scrubber's flow rate, the solution pH, or both through an administrative amendment in accordance with the results of the corresponding performance test. [LAC 33:III.501.C.6]

136 Lime slurry scrubber: Sulfur dioxide >= 93 % removal efficiency as determined in accordance with a performance test using test method approved by LDEQ. Compliance with this limitation is shown by operating the wet scrubber within the ranges of the operating parameters (lime slurry flow rate and pH) established by the corresponding performance test. [LAC 33:III.501.C.6]

Which Months: All Year Phases: Phase II Statistical Basis: None specified

137 Lime slurry scrubber: Sulfur dioxide >= 80 % removal efficiency as determined in accordance with a performance test using test method approved by LDEQ. Compliance with this limitation is shown by operating the lime slurry wet scrubber within the ranges of the operating parameters (lime slurry flow rate and pH) established by the corresponding performance test. [LAC 33:III.501.C.6]

Which Months: All Year Phases: Phase I Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001 .
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

EQT015 EPN 002 No. 2 Rotary Kiln

138 Sulfur <= 3.25 % by weight at standard conditions. The maximum sulfur content of the coal petroleum coke fuel mixture shall not exceed the limit set by this condition.

Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the maximum sulfur content of the coal petroleum coke mixture exceeds the maximum listed in this specific condition. [LAC 33:III.501.C.6]

Which Months: All Year Phases: Phase II Statistical Basis: Maximum value

139 Sulfur recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the maximum sulfur content of the coal combusted by the rotary kilns each month, as well as the maximum sulfur content of the coal combusted by the rotary kilns for the past twelve consecutive months. [LAC 33:III.501.C.6]
Phases: Phase I
140 Sulfur recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the maximum sulfur content by percent weight of the coal petroleum coke mixture used in firing the rotary kilns each month, as well as the maximum sulfur content by percent weight of the coal petroleum coke mixture used in firing the rotary kilns for the past twelve consecutive months.

The sulfur content of the coal petroleum coke mixture is calculated using the formulae given below:

$$Sm = Soco * Rcc + Scoal * (1-Rcc)$$

Where:

Sm: percent sulfur content in the coal petroleum coke mixture (fuel),

Scoal : maximum percent sulfur content in the coal,

Soco: maximum percent sulfur content in the petroleum coke,

Rcc: the petroleum coke percent by weight of the coal petroleum coke mixture (<= 0.50). [LAC 33:III.501.C.6]

Phases: Phase II

141 Fuel recordkeeping by electronic or hard copy daily. Keep records of the daily combusted petroleum coke and the corresponding maximum percent sulfur content by weight.
Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]

Phases: Phase II

142 Sulfur <= 1.5 % by weight. The maximum sulfur content of the coal shall not exceed the limit set in this condition. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the maximum sulfur content of the coal exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Maximum value

143 Fuel recordkeeping by electronic or hard copy daily. Keep records of the daily combusted coal and the corresponding maximum percent sulfur content by weight. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.501.C.6]
144 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]

145 Fuel: the rotary kilns on site shall be fired with coal petroleum coke fuel mixtures up to 50% petroleum coke only. The sulfur content of the coal and petroleum coke of the mixtures shall not exceed 1.5 % and 5.0% by weight, respectively. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the sulfur content of the rotary kilns fuel coal and petroleum coke exceeds the maximum values listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6], Phases: Phase II
Phases: Phase II

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

EQT015 EPN 002 No. 2 Rotary Kiln

146 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and the scrubber's SO₂ removal efficiency of at least 80.0%. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 6 - Determination of Sulfur Dioxide Emissions from Stationary Sources, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources, Method 5 - Determination of Particulate Matter (PM10) Emissions from Stationary Sources, and Method 25A - Determination of Determination of total gaseous organic concentration using a flame ionization analyzer. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

Establish the minimum scrubbing lime slurry flow rate and the minimum pH value or range (surrogate operating parameters) which ensures continuous compliance with the above stated scrubber's SO₂ removal efficiency.

Modify the permit to incorporate the established scrubbing lime slurry rate or range and the pH value or range
[LAC 33:III.501.C.6], Phases: Phase I
Phases: Phase I

147 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and the scrubber's SO₂ removal efficiency of at least 93.0%. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 6 - Determination of Sulfur Dioxide Emissions from Stationary Sources, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources, Method 5 - Determination of Particulate Matter (PM10) Emissions from Stationary Sources, and Method 25A - Determination of Determination of total gaseous organic concentration using a flame ionization analyzer. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

Establish the minimum scrubbing lime slurry flow rate and the minimum pH value or range (surrogate operating parameters) which ensures continuous compliance with the above stated scrubber's SO₂ removal efficiency.

Modify the permit to incorporate the established scrubbing lime slurry rate or range and the pH value or range
[LAC 33:III.501.C.6], Phases: Phase II
Phases: Phase II

148 Water Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.509]
Which Months: All Year Statistical Basis: None specified

149 Venturi wet scrubber: Particulate matter (10 microns or less) >= 99.6 % removal efficiency as determined in accordance with a performance test using test method approved by LDEQ. Compliance with this limitation is shown by operating the Venturi scrubber within the range of the operating parameter (water flow rate) established by the corresponding performance test. [LAC 33:III.509]
Which Months: All Year Statistical Basis: None specified

150 Water Flow rate recordkeeping by electronic or hard copy once every four hours. Keep Records on site for five years and available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.509]

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

EQT015 EPN 002 No. 2 Rotary Kiln

151 Conduct a performance test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The test's purpose is to demonstrate compliance with the emissions limits and/or the Venturi scrubber's PM10 removal efficiency of at least 99.6%.

Establish the minimum Venturi scrubber water flow rate (surrogate operating parameter) which ensures continuous compliance with the above stated Venturi scrubber's PM10 removal efficiency.

Modify the permit to incorporate the established scrubbing water flow rate value or range. [LAC 33:III.509]

FUG001 EPN 009 Scalping Screen (Fugitives)

152 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]

153 Total suspended particulate <= 42.5 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]

Which Months: All Year Statistical Basis: None specified

154 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

155 Particulate matter (10 microns or less): Permittee shall install and/or maintain in proper working conditions a water spray system and/or partially enclosed conveyors to reduce PM10 emissions by at least 90.0%. [LAC 33:III.509]

156 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

FUG002 EPN 010 Primary Crusher (Fugitives)

157 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]

158 Total suspended particulate <= 42.5 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]

Which Months: All Year Statistical Basis: None specified

159 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

160 Particulate matter (10 microns or less): Permittee shall install and/or maintain in proper working conditions a water spray system and/or partially enclosed conveyors to reduce PM10 emissions by at least 90.0%. [LAC 33:III.509]

161 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

FUG003 EPN 011 North Screen (Fugitives)

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER1996001
Permit Number: 2260-00002-Y0
Air - Title V Regular Permit Initial

FUG003 EPN 011 North Screen (Fugitives)

- 162 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 163 Total suspended particulate <= 42.5 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
Which Months: All Year Statistical Basis: None specified
- 164 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 165 Particulate matter (10 microns or less): Permittee shall install and/or maintain in proper working conditions a water spray system and/or partially enclosed conveyors to reduce PM10 emissions by at least 90.0%. [LAC 33:III.509]
- 166 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

FUG004 EPN 012 South Screen (Fugitives)

- 167 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 168 Total suspended particulate <= 42.5 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
Which Months: All Year Statistical Basis: None specified
- 169 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 170 Particulate matter (10 microns or less): Permittee shall install and/or maintain in proper working conditions a water spray system and/or partially enclosed conveyors to reduce PM10 emissions by at least 90.0%. [LAC 33:III.509]
- 171 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

FUG005 EPN 013 No. 1 Crusher (Fugitives)

- 172 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 173 Total suspended particulate <= 42.5 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
Which Months: All Year Statistical Basis: None specified
- 174 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 175 Particulate matter (10 microns or less): Permittee shall install and/or maintain in proper working conditions a water spray system and/or partially enclosed conveyors to reduce PM10 emissions by at least 90.0%. [LAC 33:III.509]

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-Y0
Air - Title V Regular Permit Initial

FUG005 EPN 013 No. 1 Crusher (Fugitives)

176 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

FUG007 EPN 017a General Conveyor Systems & Stockpiles (Fugitives)

177 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]

178 Total suspended particulate $\leq 42.5 \text{ lb/hr}$. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]

Which Months: All Year Statistical Basis: None specified
179 Opacity $\leq 20 \text{ percent}$; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average
180 Particulate matter (10 microns or less): Permittee shall install and/or maintain in proper working conditions a water spray system and/or partially enclosed conveyors to reduce PM10 emissions by at least 90.0%. [LAC 33:III.509]

181 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

FUG008 EPN 017b Night Stock Pile Conveyor System

182 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]

183 Total suspended particulate $\leq 42.5 \text{ lb/hr}$. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]

Which Months: All Year Statistical Basis: None specified
184 Opacity $\leq 20 \text{ percent}$; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average
185 Particulate matter (10 microns or less): Permittee shall install and/or maintain in proper working conditions a water spray system and/or partially enclosed conveyors to reduce PM10 emissions by at least 90.0%. [LAC 33:III.509]

186 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

187 Fugitive emissions: Opacity $\leq 10 \text{ percent}$, on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated but not later than 180 days after initial startup as required under 40 CFR 60.11. Subpart OOO. [40 CFR 60.672(b)]

Which Months: All Year Statistical Basis: None specified
188 Do not discharge into the atmosphere any visible emissions from wet screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated but not later than 180 days after initial startup. Subpart OOO. [40 CFR 60.672(h)(1)]

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-Y0
Air - Title V Regular Permit Initial

FUG008 EPN 017b Night Stock Pile Conveyor System

- 189 Do not discharge into the atmosphere any visible emissions from screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line, on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated but not later than 180 days after initial startup. Subpart OOO. [40 CFR 60.672(f)(2)]
- 190 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.675, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart OOO. [40 CFR 60.675(a)]
- 191 Opacity monitored by 40 CFR 60, Appendix A, Method 9 as needed. Use Method 9 and the procedures in 40 CFR 60.11, with the additions in 40 CFR 60.675(c)(1) through (c)(4), to determine compliance with the particulate matter standards in 40 CFR 60.672(b) and (c). Subpart OOO. [40 CFR 60.675(c)(1)]
- Which Months: All Year Statistical Basis: None specified
- 192 Opacity recordkeeping by manual logging as needed. Record the individual test and the average result of the monitoring test listed in 40 CFR 60.675(c)(1) through (c)(4).
- Subpart OOO. [40 CFR 60.675(c)]
- 193 Submit notification to the DEQ: Due at least 7 days prior to any rescheduled performance test, if, after 30 days notice for an initially scheduled performance test, there is any delay (due to operational problems etc.) in conducting any rescheduled performance test required by 40 CFR 60.675. Subpart OOO. [40 CFR 60.675(g)]
- 194 Submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR 60.672, including reports of opacity observations made using Method 9 to demonstrate compliance with 40 CFR 60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with 40 CFR 60.672(e). Subpart OOO. [40 CFR 60.676(f)]
- 195 Submit notification: Due to DEQ (postmarked) within 15 days after the actual date of initial startup. Submit the actual date of initial startup and include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available. A single notification of startup may be submitted for a combination of affected facilities in a production line that begin actual initial startup on the same day. For portable aggregate processing plants, include both the home office and the current address or location of the portable plant. Subpart OOO. [40 CFR 60.676(i)(1)]

FUG009 EPN 018 Double Deck Clean-up Screen (Fugitives)

- 196 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33.III.1305.1-7. [LAC 33.III.1305]
- 197 Total suspended particulate <= 42.5 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33.III.1311.B]
- Which Months: All Year Statistical Basis: None specified
- 198 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33.III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 199 Particulate matter (10 microns or less): Permittee shall install and/or maintain in proper working conditions a water spray system and/or partially enclosed conveyors to reduce PM10 emissions by at least 90.0%. [LAC 33.III.509]
- 200 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33.III.905]
- 201 Fugitive emissions: Opacity <= 10 percent, on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated but not later than 180 days after initial startup as required under 40 CFR 60.11. Subpart OOO. [40 CFR 60.672(b)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-Y0
Air - Title V Regular Permit Initial

FUG009 EPN 018 Double Deck Clean-up Screen (Fugitives)

- 202 Do not discharge into the atmosphere any visible emissions from wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated but not later than 180 days after initial startup. Subpart OOO. [40 CFR 60.672(h)(1)]
- 203 Do not discharge into the atmosphere any visible emissions from screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line, on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated but not later than 180 days after initial startup. Subpart OOO. [40 CFR 60.672(h)(2)]
- 204 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.675, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart OOO. [40 CFR 60.675(a)]
- 205 Opacity monitored by 40 CFR 60, Appendix A, Method 9 as needed. Use Method 9 and the procedures in 40 CFR 60.11, with the additions in 40 CFR 60.675(c)(1) through (c)(4), to determine compliance with the particulate matter standards in 40 CFR 60.672(b) and (c). Subpart OOO. [40 CFR 60.675(c)]
- Which Months/ All Year Statistical Basis: None specified
- 206 Opacity recordkeeping by manual logging as needed. Record the individual test and the average result of the monitoring test listed in 40 CFR 60.675(c)(1) through (c)(4).
- Subpart OOO. [40 CFR 60.675(c)]
- 207 Submit notification to the DEQ: Due at least 7 days prior to any rescheduled performance test, if, after 30 days notice for an initially scheduled performance test, there is any delay (due to operational problems etc.) in conducting any rescheduled performance test required by 40 CFR 60.675. Subpart OOO. [40 CFR 60.675(g)]
- 208 Submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR 60.672, including reports of opacity observations made using Method 9 to demonstrate compliance with 40 CFR 60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with 40 CFR 60.672(e). Subpart OOO. [40 CFR 60.676(f)]
- 209 Submit notification: Due to DEQ (postmarked) within 15 days after the actual date of initial startup. Submit the actual date of initial startup and include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available. A single notification of startup may be submitted for a combination of affected facilities in a production line that begin actual initial startup on the same day. For portable aggregate processing plants, include both the home office and the current address or location of the portable plant. Subpart OOO. [40 CFR 60.676(i)(1)]

FUG010 EPN 005b No. 1 Cooler Fugitives

- 210 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 211 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

FUG011 EPN 006b No. 2 Cooler Fugitives

- 212 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 213 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

FUG012 EPN 007b No. 3 Cooler Fugitives

- 214 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1.305.1-7 [LAC 33:III.1.305]
- 215 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

FUG013 EPN 008b No. 4 Cooler Fugitives

- 216 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1.305.1-7 [LAC 33:III.1.305]
- 217 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

FUG014 EPN 022 Unpaved Road Fugitives

- 218 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1.305.1-7 [LAC 33:III.1.305]
- 219 Particulate matter (10 microns or less): Permittee shall enforce a low speed limit and water the unpaved roads to reduce PM10 emissions by at least 95.5%. [LAC 33:III.509]
- 220 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

FUG015 EPN 023 Clinker Crushing and Handling

- 221 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1.305.1-7 [LAC 33:III.1.305]
- 222 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

GRP004 Entire Facility

- 223 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.1.11 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 224 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 225 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

GRP004 **Entire Facility**

- 226 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
- 227 Carbon monoxide <= 147.68 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 228 Sulfur dioxide <= 258.08 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 229 VOC, Total <= 11.97 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 230 Throughput <= 770880 tons/yr. This is the maximum annual throughput of wet clay processed at the facility. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the maximum annual throughput of wet clay processed and/or handled at the facility exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]
- 231 Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total wet clay processed and/or handled at the facility each month, as well as the total wet clay processed and/or handled at the facility for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]
- 232 Nitrogen oxides <= 1002.56 tons/yr. [LAC 33:III.509]
Which Months: All Year Statistical Basis: Annual maximum
- 233 Particulate matter (10 microns or less) <= 52.70 tons/yr. [LAC 33:III.509]
Which Months: All Year Statistical Basis: Annual maximum
- 234 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 235 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 236 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 237 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 238 Submit Title V monitoring results report: Due semiannually, by March 31 and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(ii)(A)]
- 239 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(ii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(ii)(B)]
- 240 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]

GRP007 **Rotary Kilns Emissions CAP during Phase I**

SPECIFIC REQUIREMENTS

AI ID: 1272 - Gravelite Division
Activity Number: PER19960001
Permit Number: 2260-00002-V0
Air - Title V Regular Permit Initial

GRP007 **Rotary Kilns Emissions CAP during Phase I**

- 241 Fuel: the rotary kilns on site shall burn coal only. The sulfur content of the coal shall not exceed 1.5 % by weigh. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the sulfur content of the rcoal exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6], Phases: Phase I
Which Months: All Year Phases: Phase I Statistical Basis: None specified
- 242 Sulfur dioxide: The total sulfur dioxide emissions generated at the plant from all four kilns shall not exceed 258.08 tons/yr, the limit specified under the CAP, Group 7. This limit represents an annual increase over the plant's permitted limit under the state Permit No. 2260-00002-01, of 38.08 tons which is below the PSD significance leve of 40 tons. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the total sulfur dioxide emitted by all four rotary kilns exceeds the maximum values listed in this specific condition for any twelve consecutive month period. Keep records of the total sulfur dioxide emitted by all four rotary kilns each month, as well as the total sulfur dioxide emitted by all four rotary kilns for the past twelve consecutive months. [LAC 33:III.501.C.6],
Phases: Phase I
Phases: Phase I